

FIG. 1

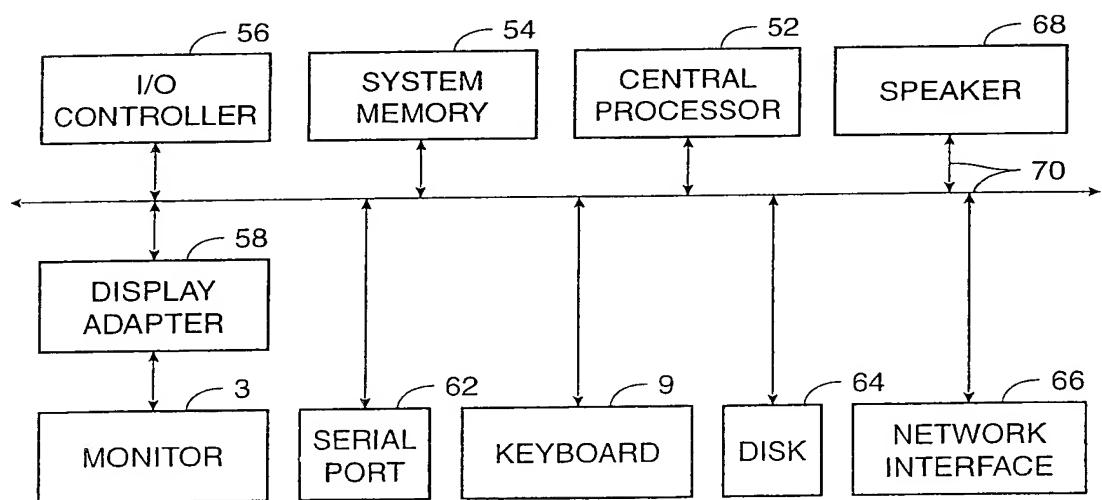


FIG. 2

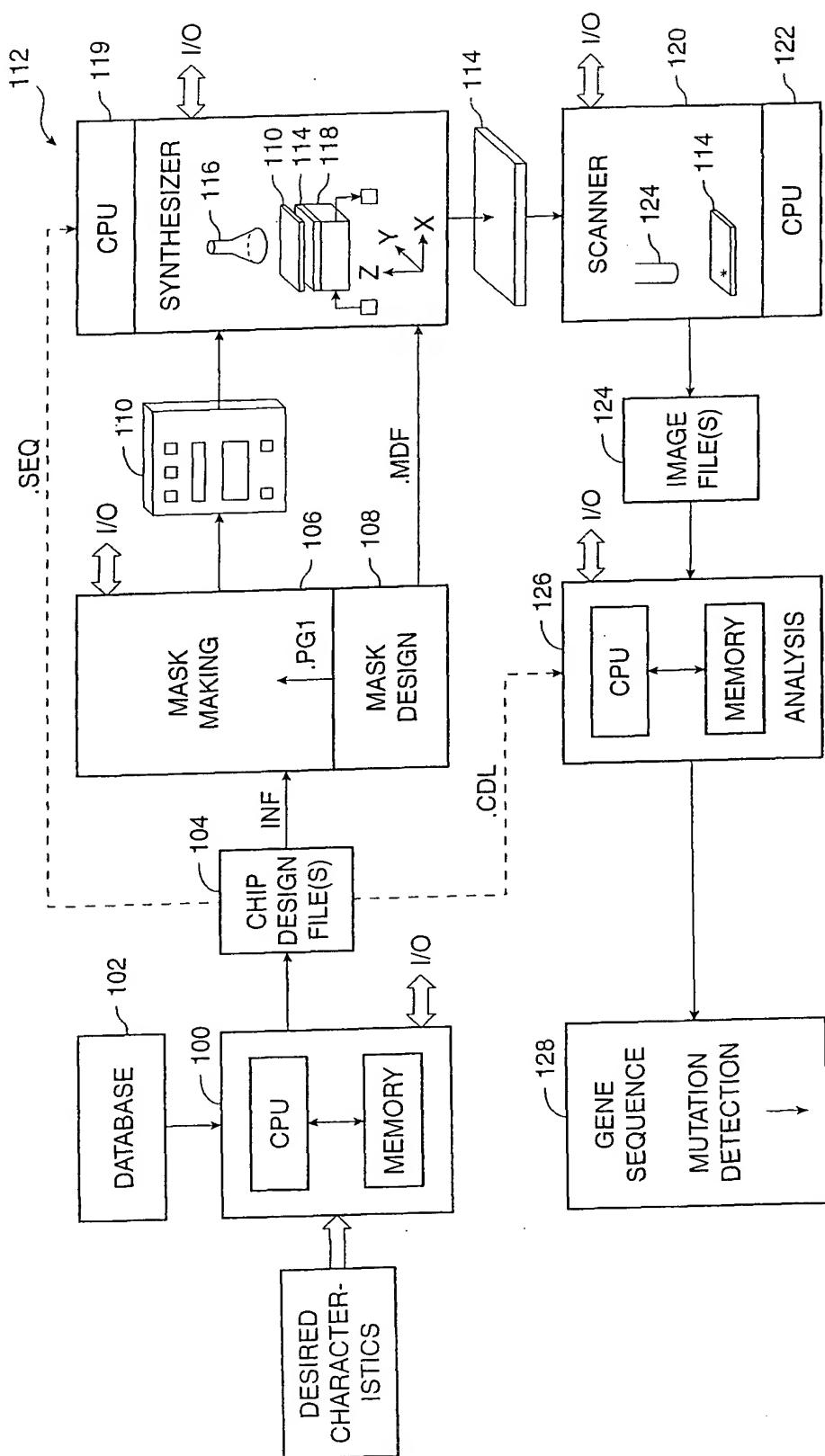


FIG. 3

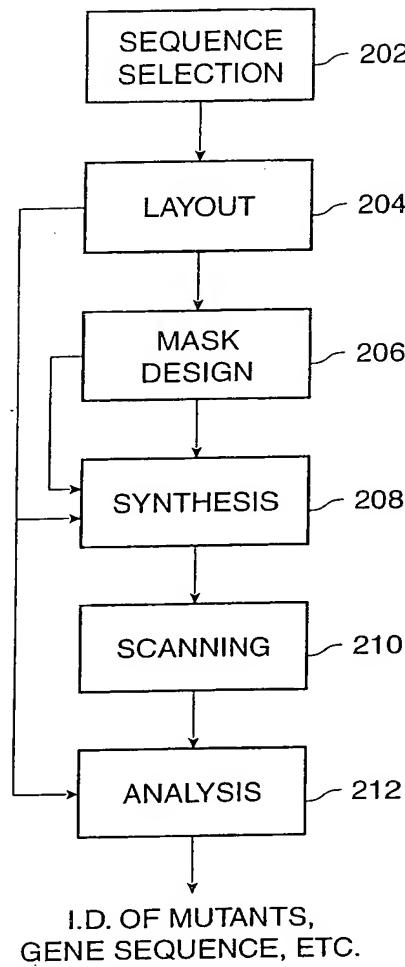


FIG. 4

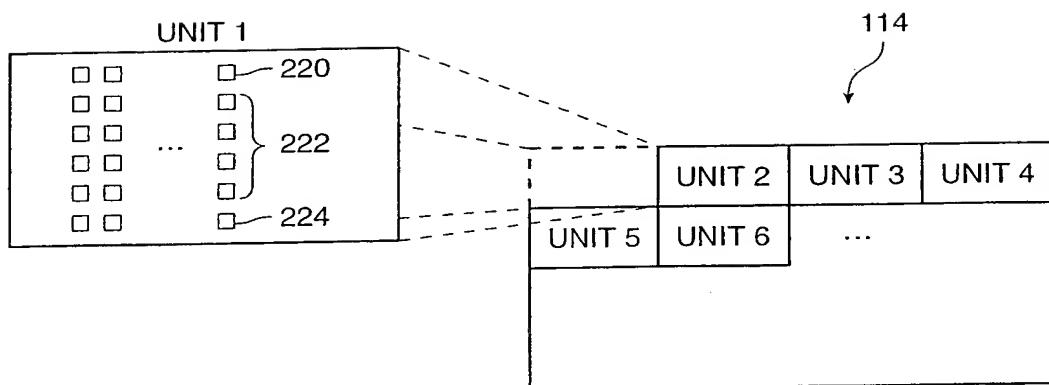


FIG. 5

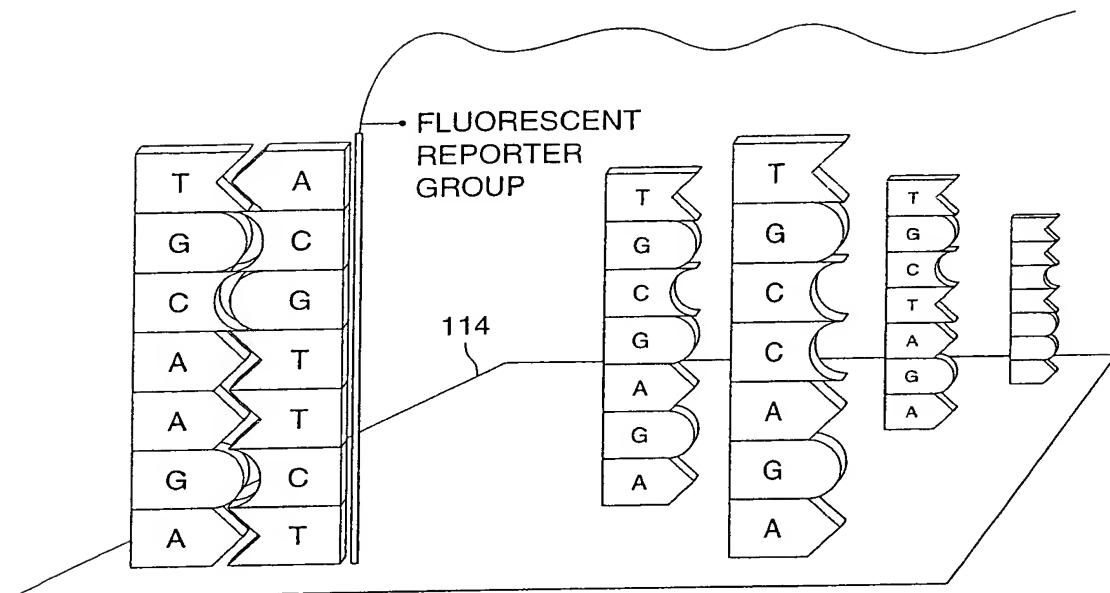


FIG. 6

REFERENCE
SEQUENCE A C T₁ G₂ T₃ T₄ A₅ G C T A A T T G G - 5'

WT-LANE	T G [A] C	G A [C] A	A C [A] A	C A [A] T	A A [T] G
A-LANE	T G [A] C	G A [A] A	A C [A] A	C A [A] T	A A [A] G
C-LANE	T G [C] C	G A [C] A	A C [C] A	C A [C] T	A A [C] G
G-LANE	T G [G] C	G A [G] A	A C [G] A	C A [G] T	A A [G] G
T-LANE	T G [T] C	G A [T] A	A C [T] A	C A [T] T	A A [T] G

I₁ I₂ I₃ I₄ I₅

FIG. 7

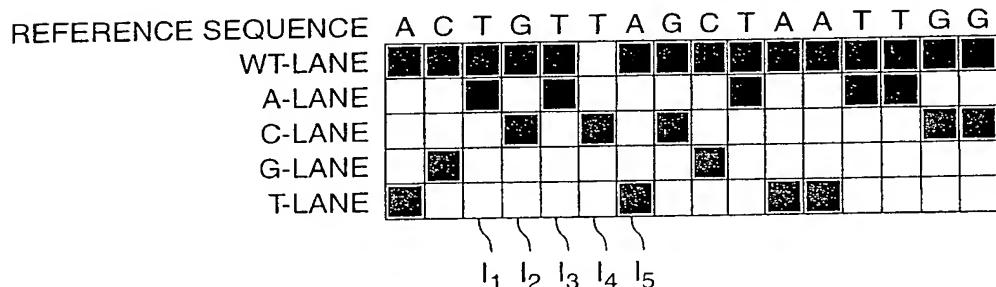


FIG. 8

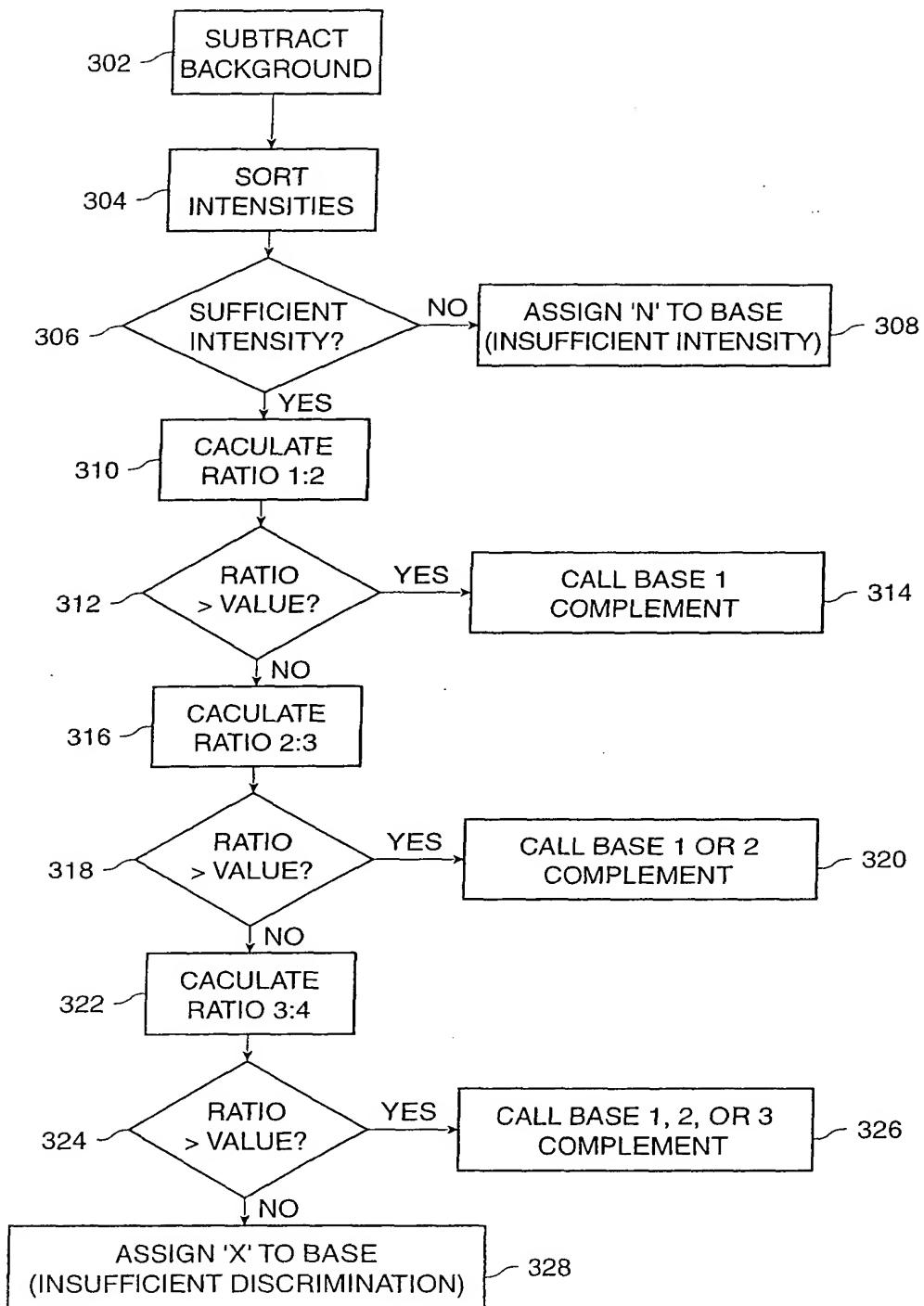


FIG. 9

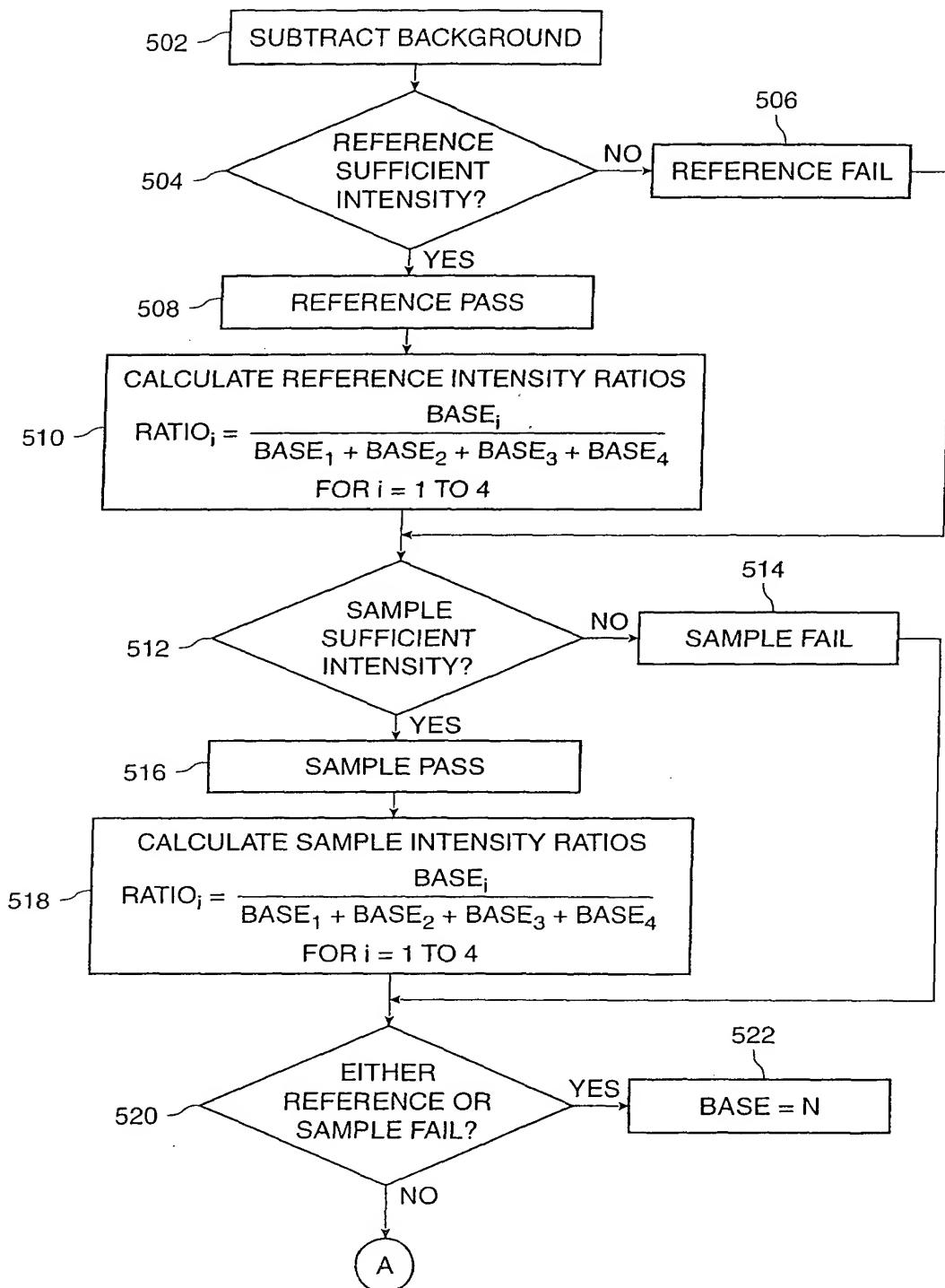


FIG. 10A

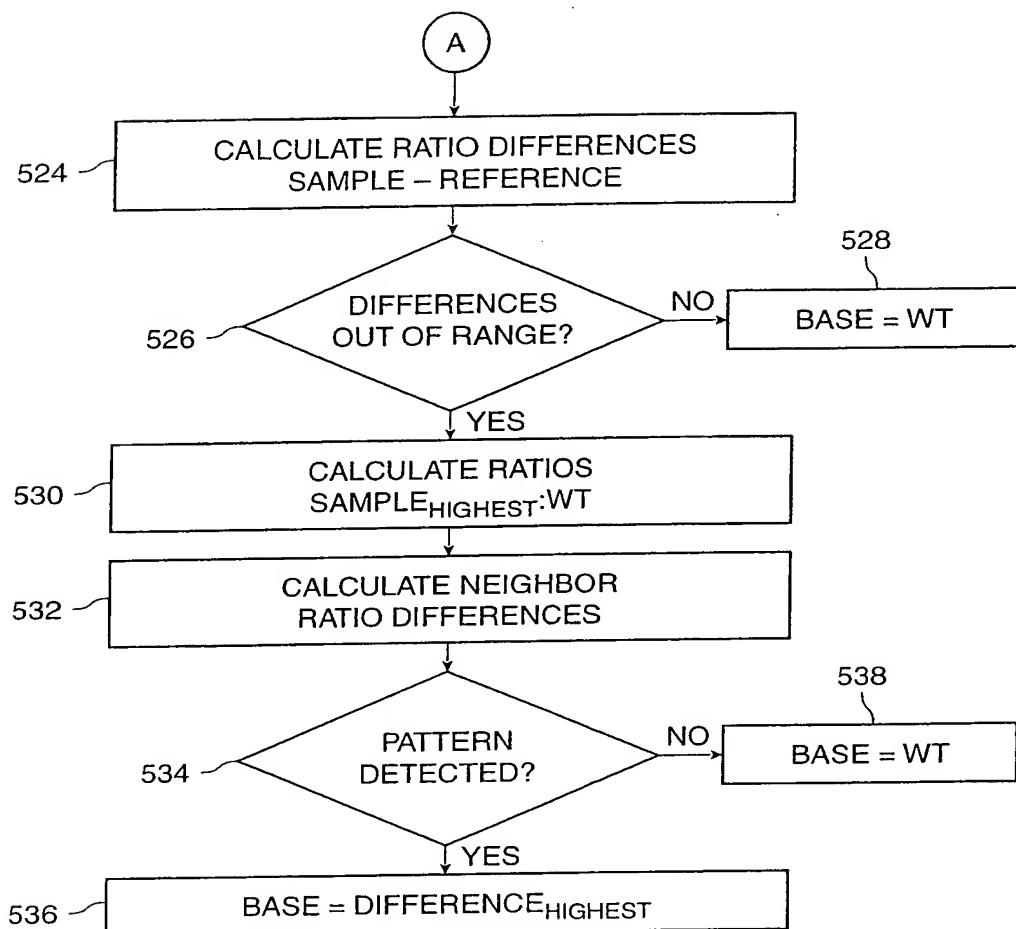


FIG. 10A
(CONTINUED)

8/31

POSITION	WT	REFERENCE				SAMPLE				RATIO OF RATIOS							
		BACK-GROUND	A	C	G	T	BACK-GROUND	A	C	G	T	A/A	C/C	G/G	T/T	BASE	CONFIDENCE
463	C	P	7.2	9.9	1.0	5.6	P	6.4	2.3	1.0	14.5	1.1	4.3	1.0	0.4	G	1
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

FIG. 10B

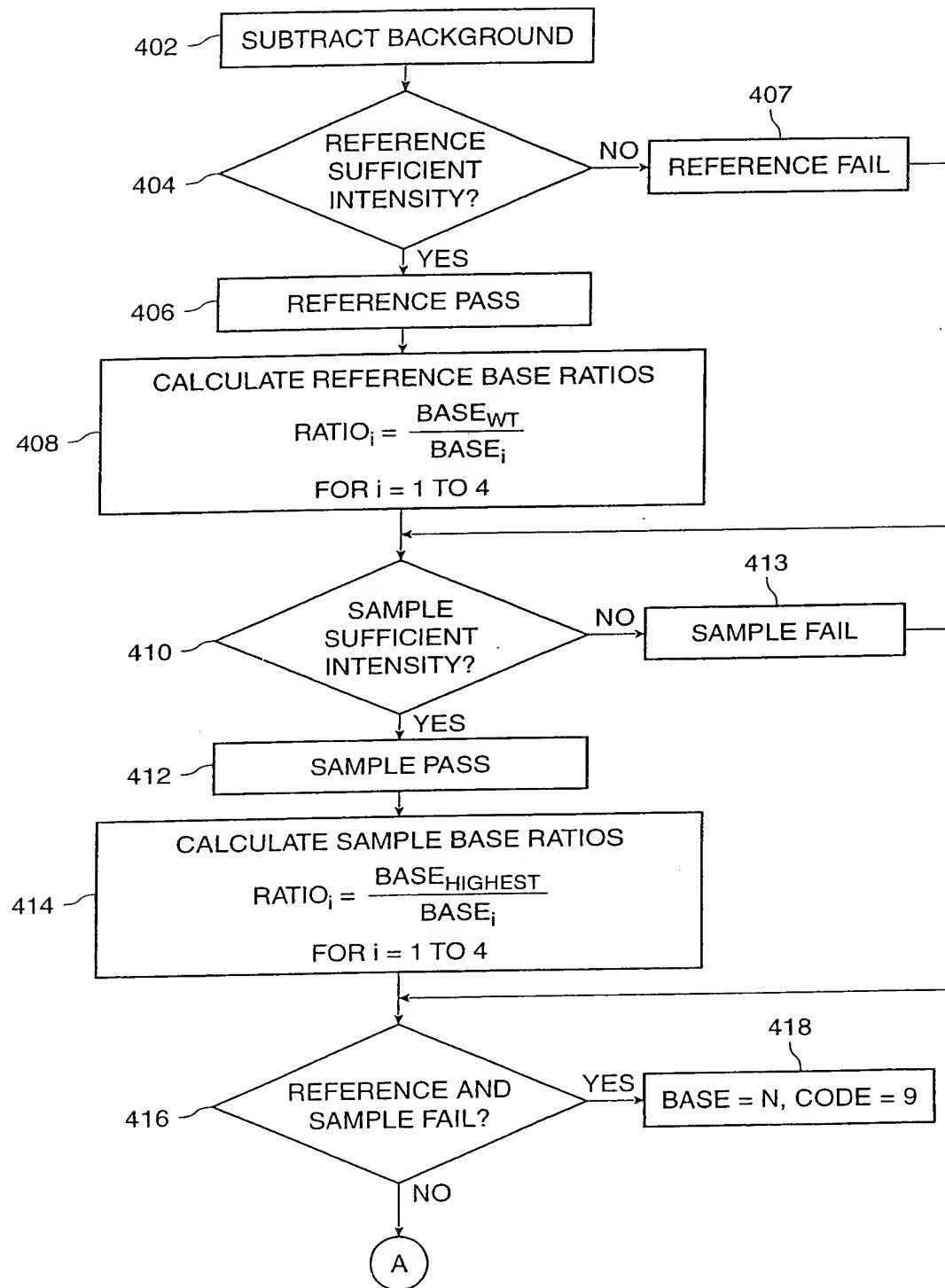
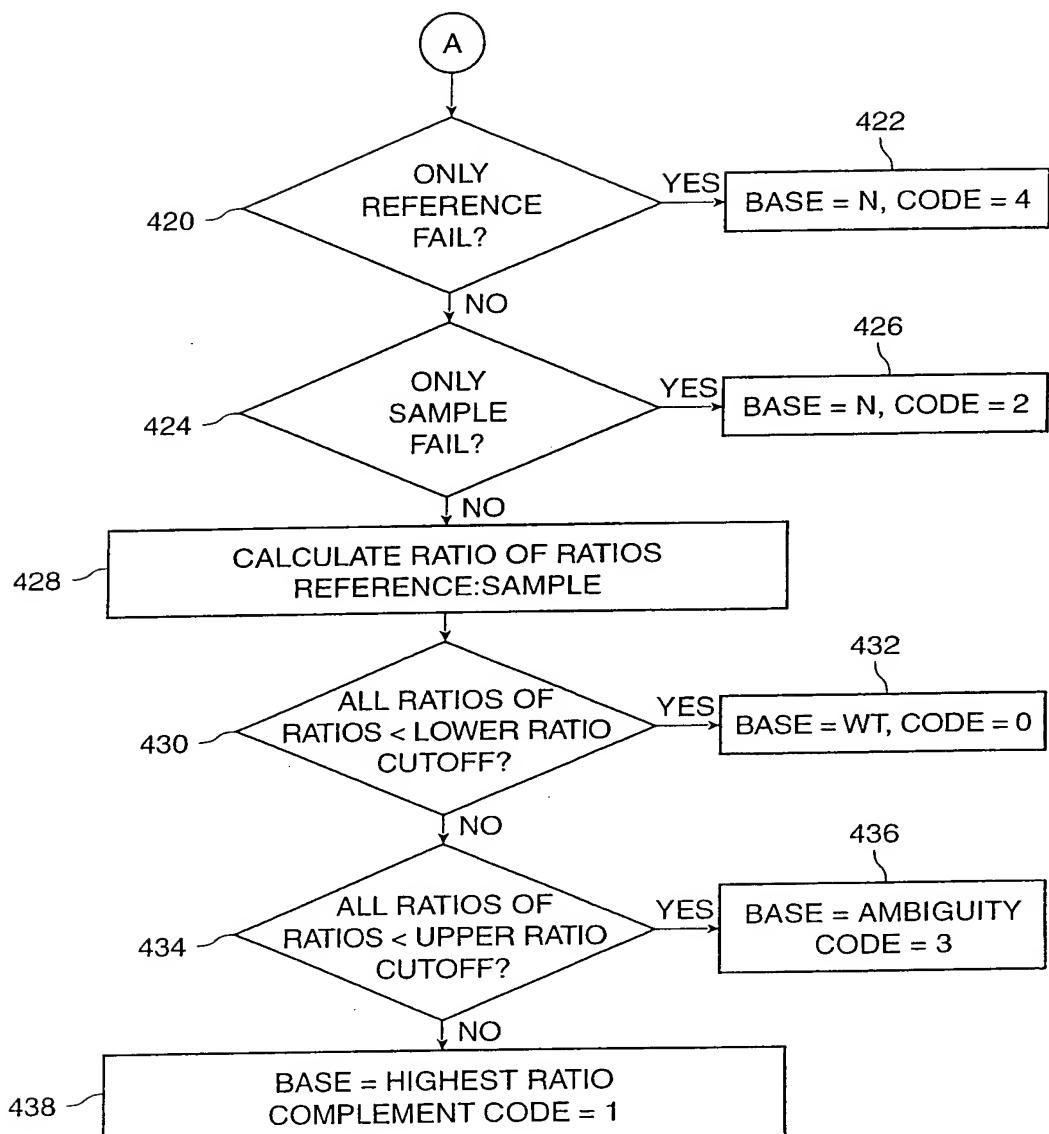


FIG. 11A



*FIG. 11A
(CONTINUED)*

BCK SUBTRACTED INTENSITIES											
RY090203.CQ1	-7	-6	-5	-4	-3	-2	-1	0	1	2	3
POSITION:	234	235	236	237	238	239	240	241	242	243	244
WILDTYPE:	A	A	A	C	C	A	A	T	C	C	A
CALLED:	A	A	A	C	C	A	A	T	C	C	A
A	148	193	165	17	70	38	282	385	97	31	18
C	57	100	42	167	345	278	38	99	139	249	249
G	26	32	20	16	64	17	27	107	100	13	9
T	9	15	10	6	41	14	27	79	261	6	2
S	240	340	238	207	522	347	374	671	598	298	279
WTR	148	193	165	167	345	278	282	385	261	249	249
MAXR	148	193	165	167	345	278	282	385	261	249	249
MC090407.CQ1											
POSITION:											
WILDTYPE:	234	235	236	237	238	239	240	241	242	243	244
CALLED:	A	A	C	C	C	A	X	X	C	C	A
A	M	M	A	C	X	C	A	T	C	A	T
C	194	238	150	44	191	126	283	332	234	58	49
G	209	291	74	202	337	277	74	199	175	259	288
T		92	72	34	29	114	52	65	571	231	30
S		25	39	16	11	96	29	68	205	267	11
WTR		520	639	274	286	738	484	489	1307	906	357
MAXR		194	238	150	202	337	277	283	332	267	259
		209	291	150	202	337	277	283	571	267	259

11/31

502A

502B

FIG. 11B

12/31

WT/E/WTR	1.31	1.23	0.91	1.21	0.98	1.00	1.00	0.86	1.02	1.04	1.15	1.54	1.51	1.34	1.30	1.66	
MAXE/WTR	1.42	1.51	0.91	1.21	0.98	1.00	1.00	1.48	1.02	1.04	1.15	1.54	1.51	1.34	1.30	1.66	
N-L + N-R	0.79	-0.63	0.54	-0.25	0.01	0.14	0.94	0.14	-0.10	-0.27	0.38	0.04	0.14	-0.13	-0.40		
N-L	0.09	-0.60	0.30	-0.24	0.02	0.01	0.48	-0.46	0.02	0.11	0.38	0.01	-0.04	-0.17	-0.04		
N-R	0.60	-0.30	0.24	-0.02	-0.01	-0.48	0.46	-0.02	-0.11	-0.38	-0.01	0.04	0.17	0.04	-0.36		
N-L D(N-R)	-0.90	0.54	-0.25	0.01	-0.48	0.94	-0.48	-0.10	-0.27	0.38	0.04	0.14	-0.13				
N-R D(N-L)	-0.90	0.54	-0.25	0.01	-0.48	0.94	-0.48	-0.10	-0.27	0.38	0.04	0.14	-0.13				
L(N-L) - (N-R)L	0.29	0.07	0.22	0.02	0.49	0.02	0.44	0.13	0.50	0.39	0.03	0.21	0.21				
A+B-C	-2.10	1.01	-0.73	0.00	-1.44	1.86	-1.40	-0.33	-1.03	0.36	0.06	0.06	-0.48				
SUM MT/ SUM WT																	
INTENSITIES																	
N/L + N/R	2.16	1.88	1.15	1.39	1.41	1.39	1.31	1.95	1.52	1.20	1.30	1.60	1.71	1.78	1.50	1.45	1.63
N-L + N-R	2.50	1.45	2.18	2.04	2.05	1.61	2.77	2.04	1.71	1.89	2.18	2.03	2.22	1.88	1.85		
N-L	0.22	-0.48	0.10	0.02	0.03	-0.36	0.54	-0.06	-0.21	-0.10	0.10	0.02	0.17	-0.11	-0.12		
N-R	-0.28	-0.73	0.21	0.03	-0.02	-0.09	0.54	-0.43	-0.32	0.10	0.30	0.10	0.07	-0.27	-0.06		
	0.73	-0.23	-0.03	0.02	0.09	-0.64	0.43	0.32	-0.10	-0.30	-0.10	-0.07	0.27	0.06	-0.18		

FIG. 11B
(CONTINUED)

NORMALIZED INTENSITIES																	
WILDTYPE																	
A	0.61	0.57	0.70	0.08	0.13	0.11	0.75	0.57	0.16	0.10	0.07	0.87	0.06	0.75	0.20	0.26	0.37
C	0.24	0.29	0.18	0.81	0.66	0.80	0.10	0.15	0.23	0.83	0.90	0.07	0.88	0.09	0.29	0.51	0.42
G	0.11	0.09	0.08	0.08	0.12	0.05	0.07	0.16	0.17	0.04	0.03	0.06	0.04	0.10	0.16	0.12	0.13
T	0.04	0.04	0.04	0.03	0.08	0.04	0.07	0.12	0.44	0.02	0.01	0.01	0.03	0.05	0.36	0.11	0.09
MUTANT																	
A																	
C	0.37	0.37	0.55	0.15	0.26	0.26	0.58	0.25	0.26	0.16	0.16	0.83	0.05	0.64	0.21	0.26	0.37
G	0.40	0.45	0.27	0.71	0.46	0.57	0.15	0.15	0.19	0.72	0.80	0.09	0.80	0.12	0.28	0.46	0.34
T	0.18	0.11	0.12	0.10	0.15	0.11	0.13	0.44	0.25	0.08	0.05	0.06	0.10	0.13	0.19	0.15	0.16
MT - MT (NORMALIZED)	0.05	0.06	0.06	0.04	0.13	0.06	0.14	0.16	0.29	0.03	0.02	0.02	0.05	0.11	0.32	0.14	0.12
INTENSITIES																	
POSITION:																	
WILDTYPE:																	
CALLED:	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250
A	A	A	C	C	C	A	A	T	C	C	A	C	A	T	C	A	
C	M	M	A	C	X	C	A	X	X	C	C	A	C	A	X	X	M
G	-0.24	-0.20	-0.15	0.07	0.12	0.15	-0.18	-0.32	0.09	0.06	0.07	-0.04	0.00	-0.11	0.01	0.00	0.01
T	0.17	0.16	0.09	-0.10	-0.20	-0.23	0.05	0.00	-0.04	-0.11	-0.10	0.03	-0.08	0.03	-0.01	-0.05	-0.07
	0.07	0.02	0.04	0.02	0.03	0.06	0.06	0.28	0.09	0.04	0.01	0.00	0.06	0.03	0.03	0.03	0.03
	0.01	0.02	0.02	0.01	0.05	0.02	0.07	0.04	-0.14	0.01	0.01	0.02	0.05	-0.04	0.03	0.03	0.04

13/31

518

524

FIG. 11B
(CONTINUED)

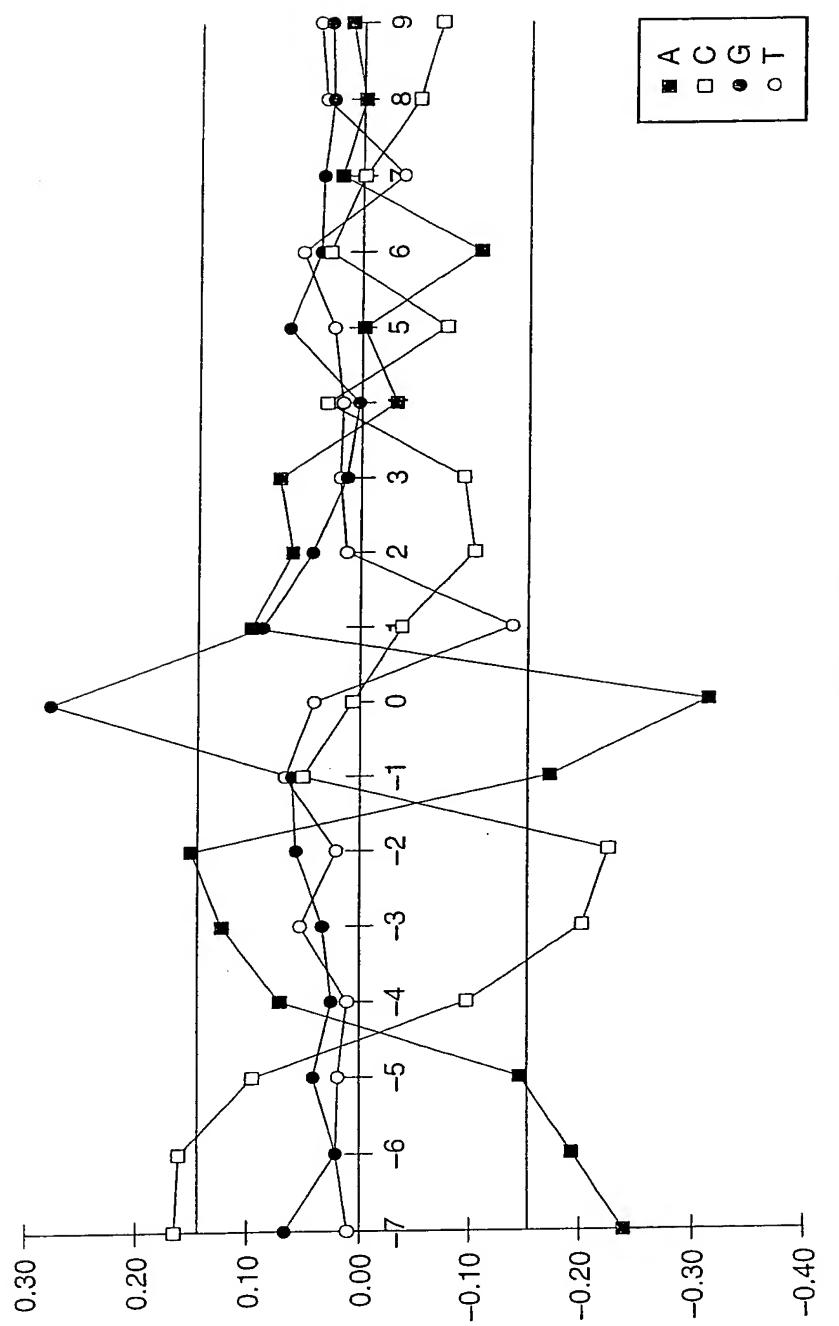
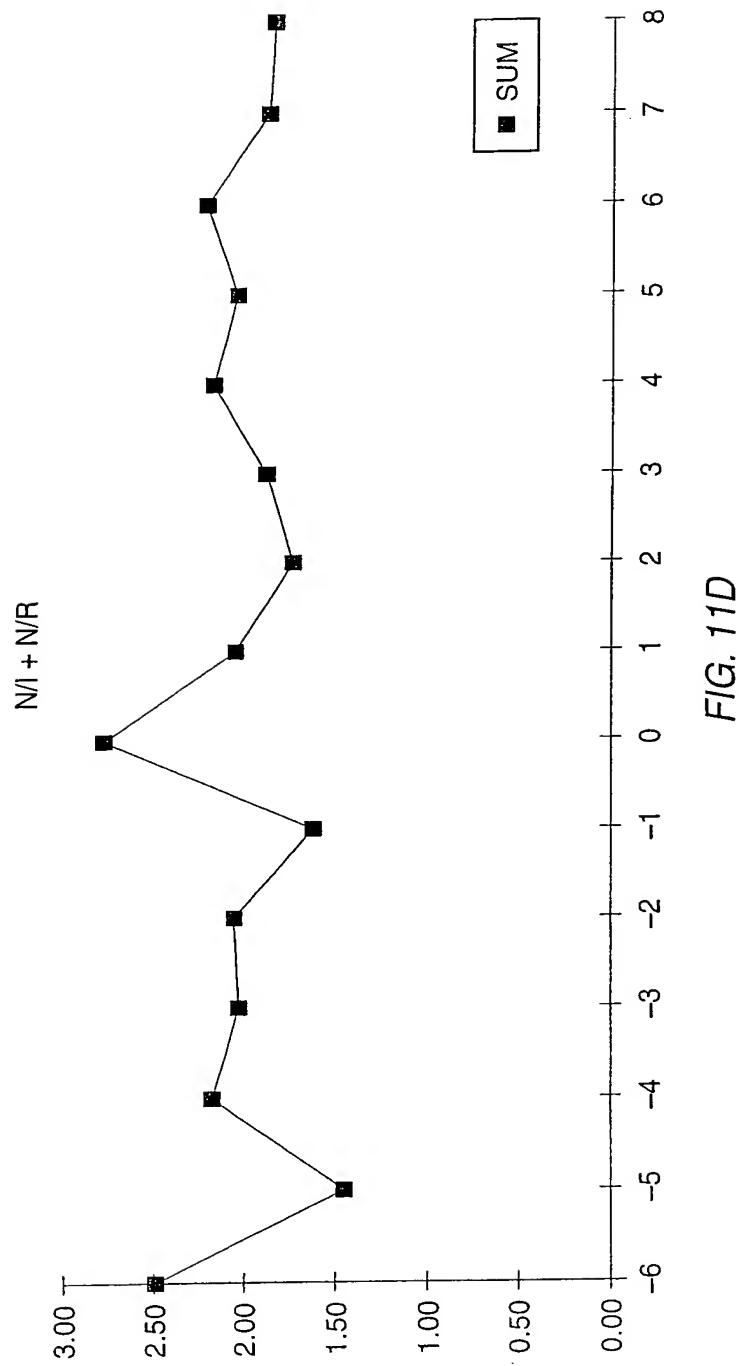


FIG. 11C



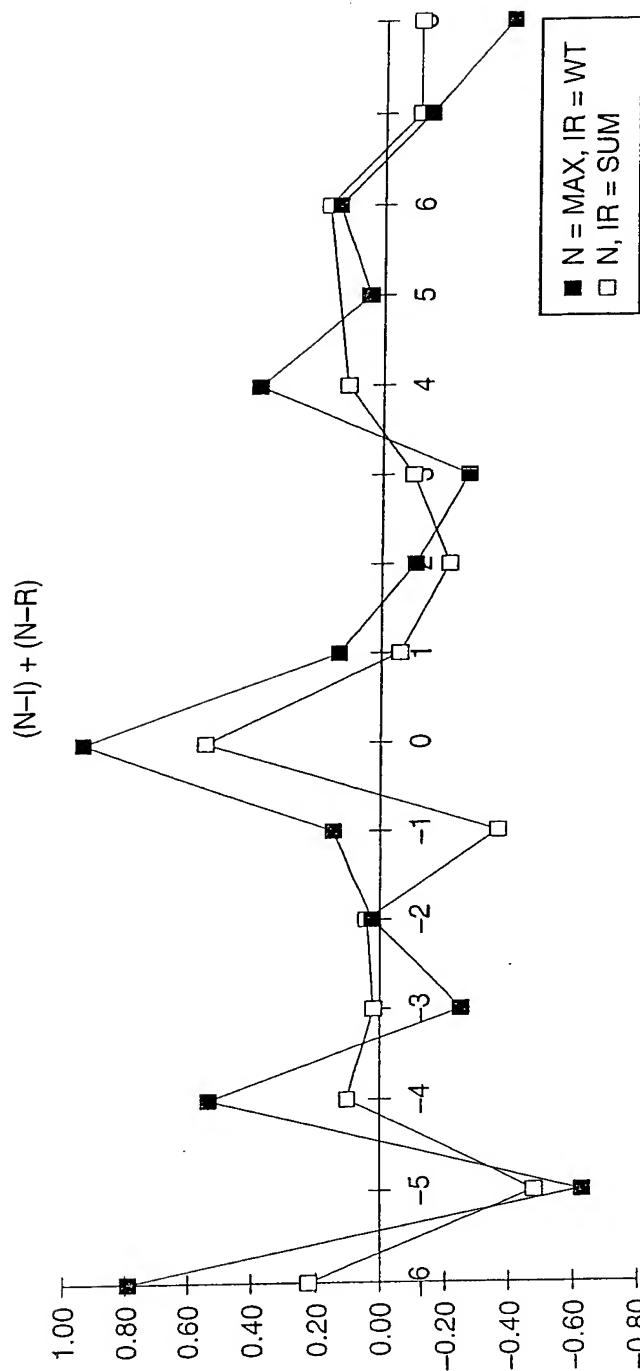


FIG. 11D
(CONTINUED)

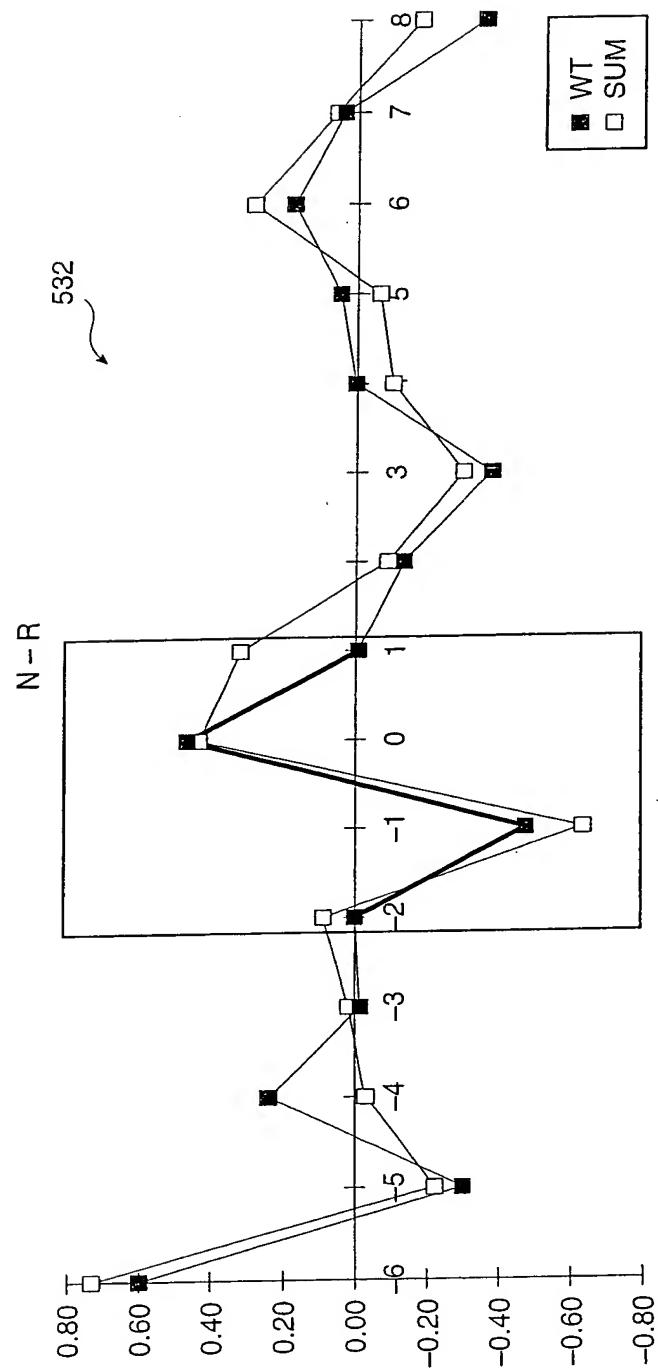


FIG. 11D
(CONTINUED)

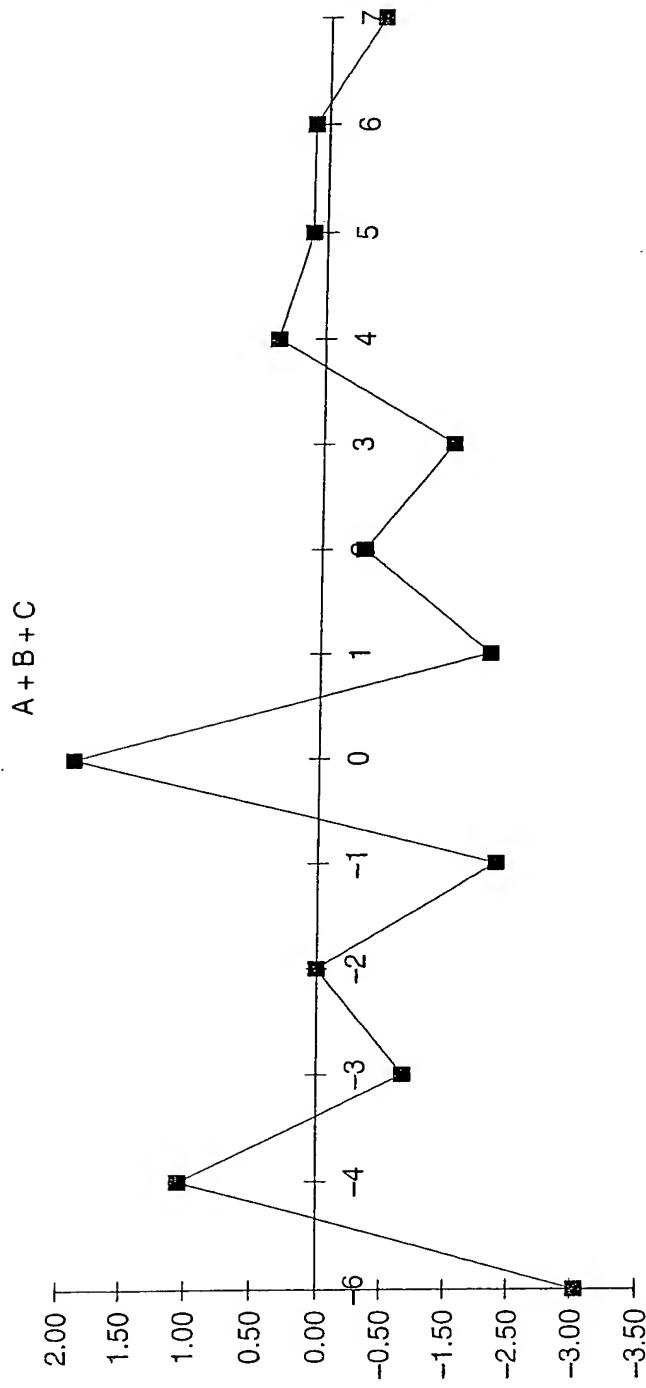


FIG. 11D
(CONTINUED)

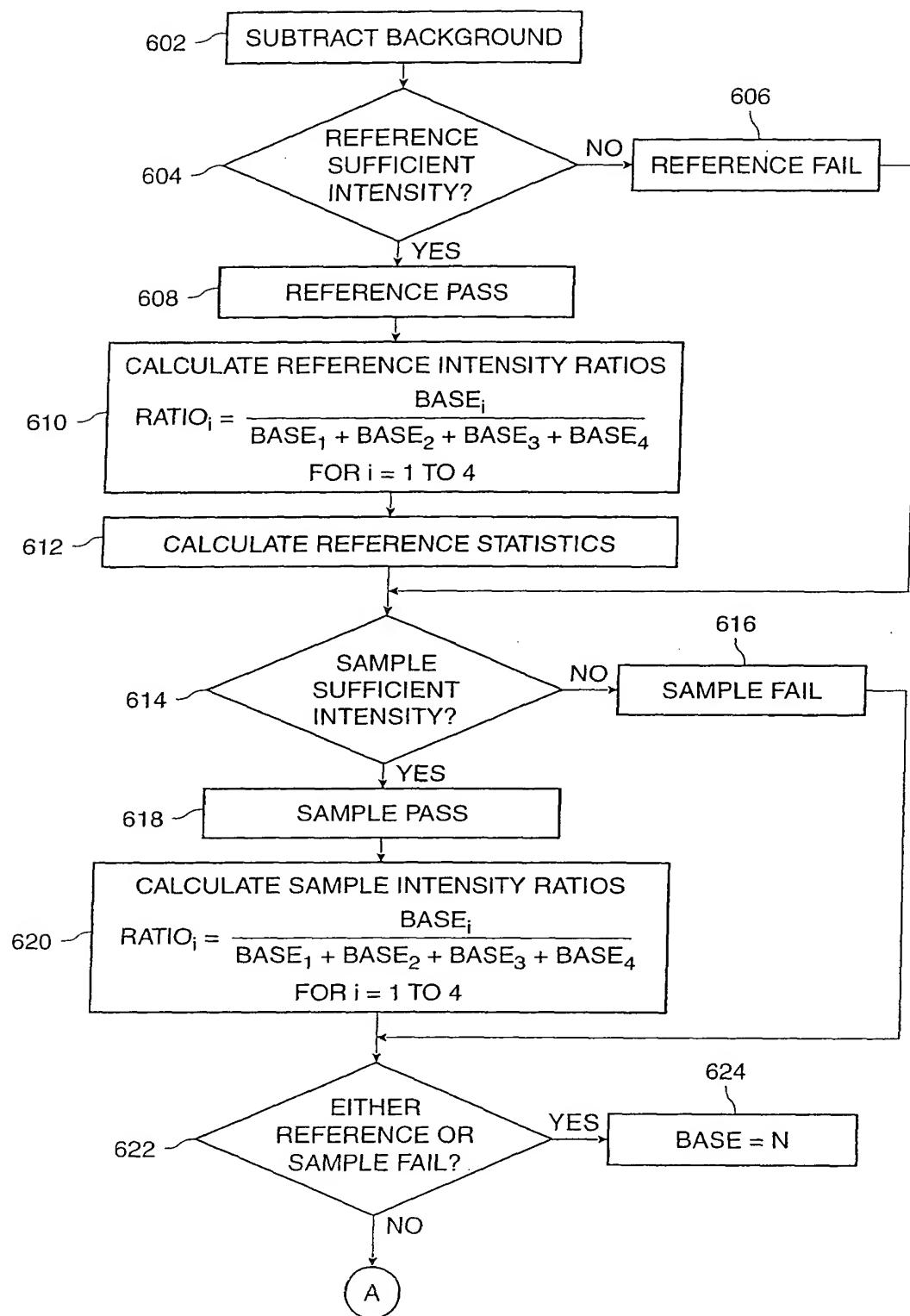


FIG. 12

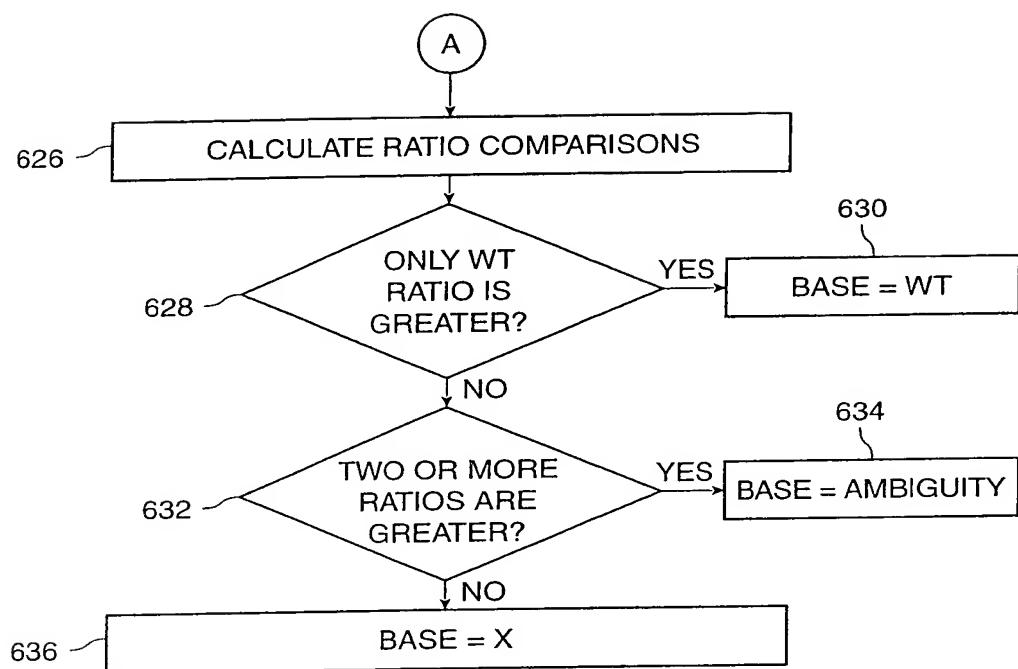


FIG. 12
(CONTINUED)

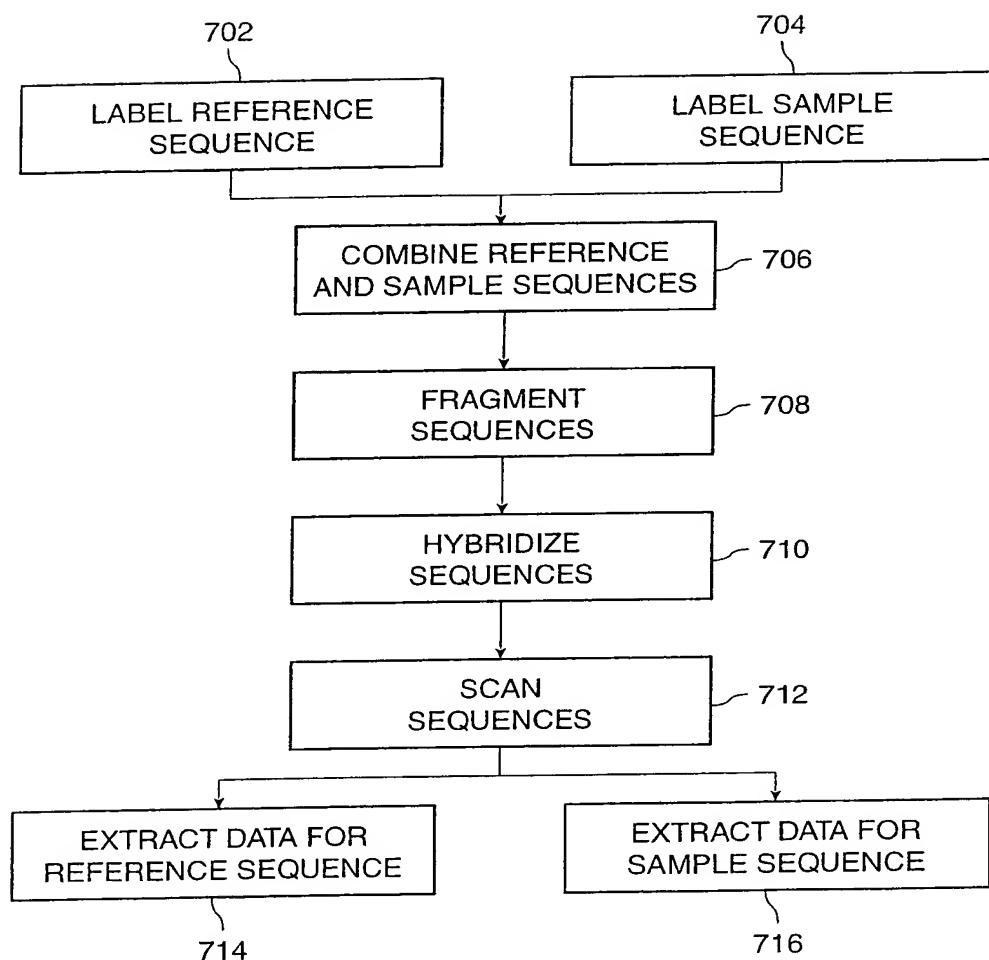


FIG. 13

22/31

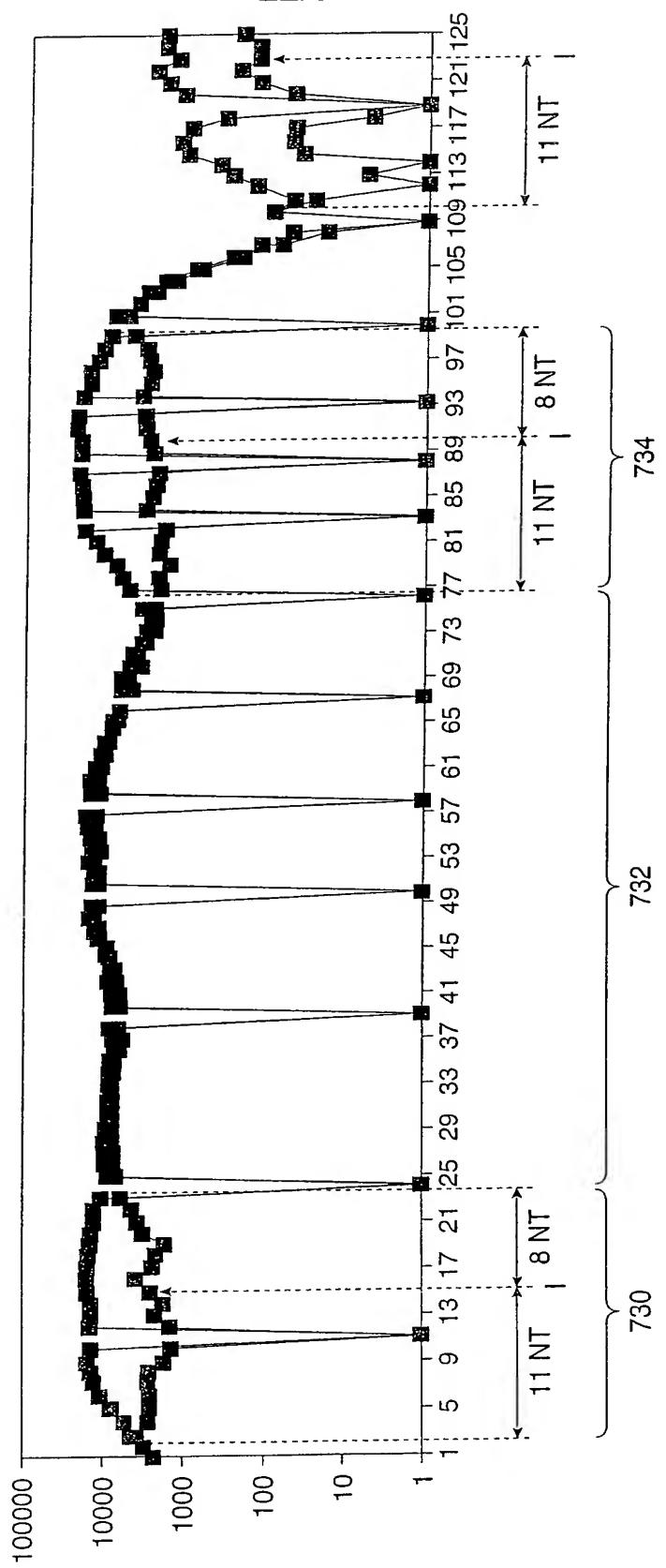


FIG. 14A

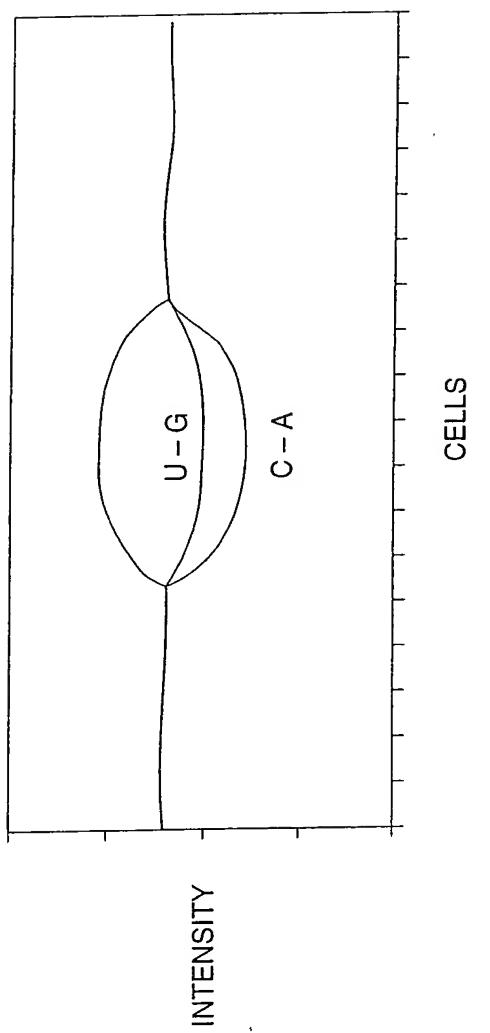


FIG. 14B

24/31

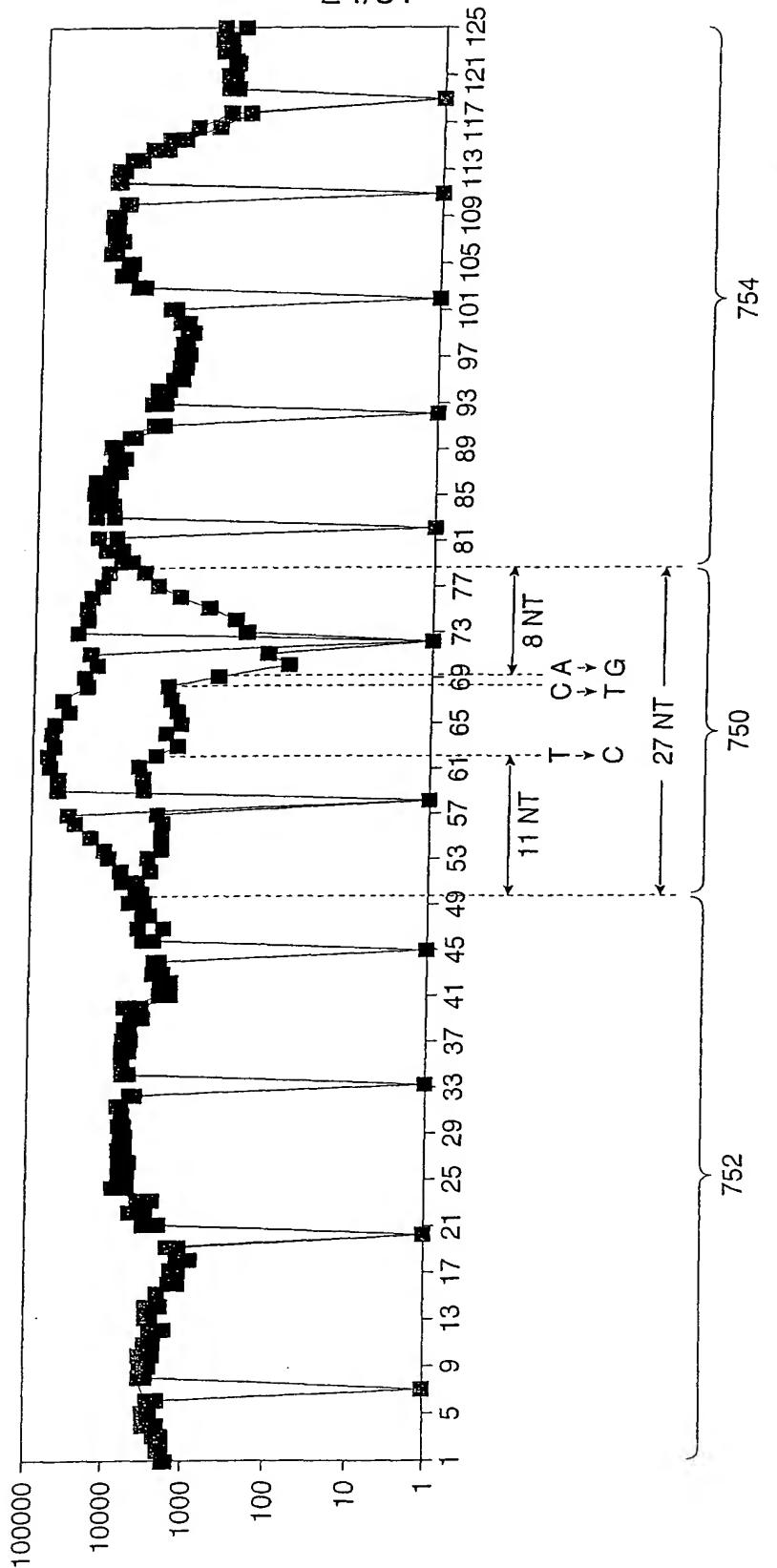


FIG. 14C

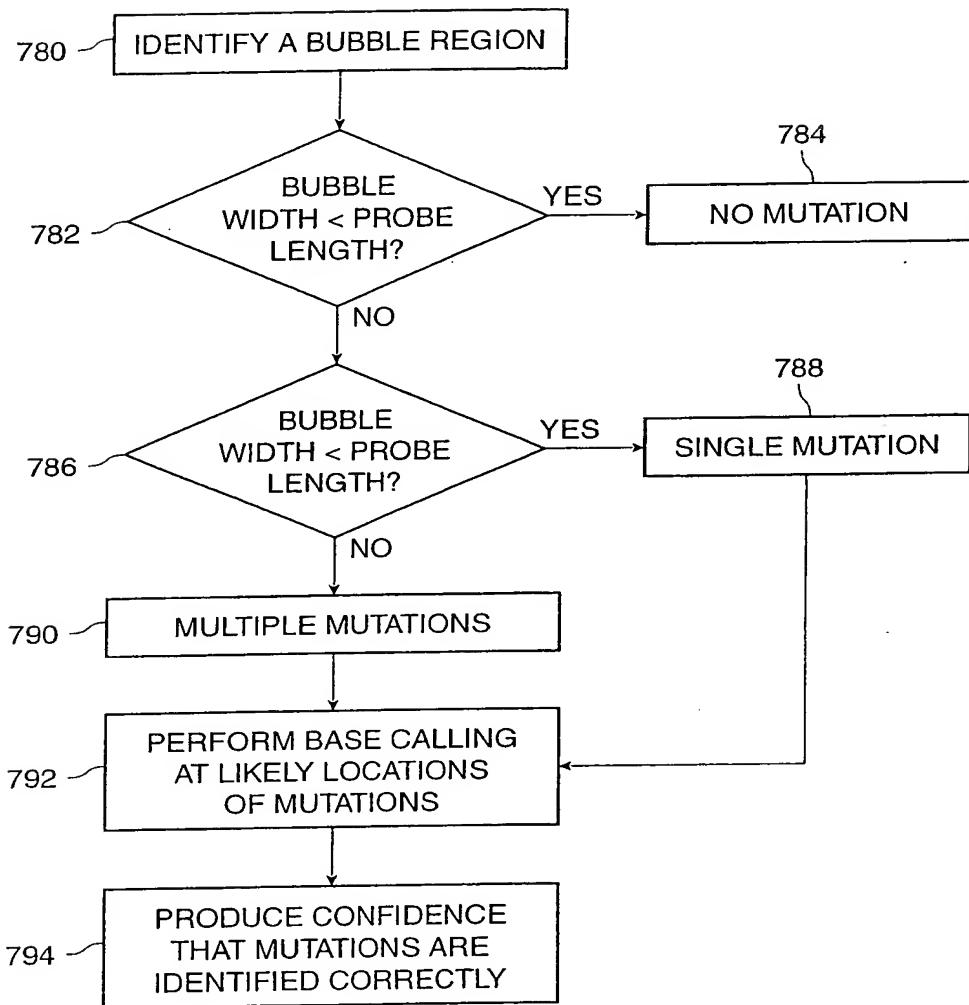
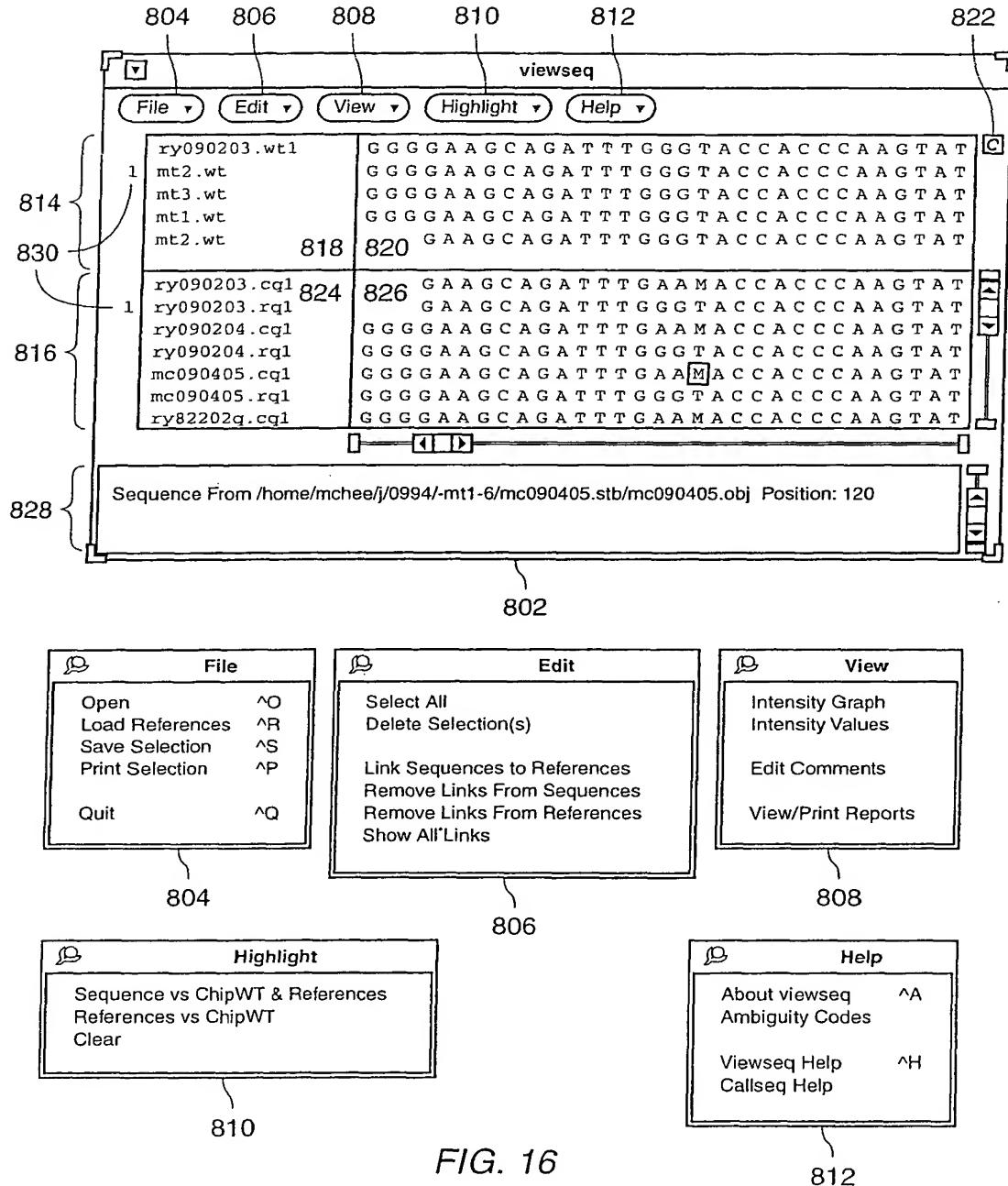


FIG. 15



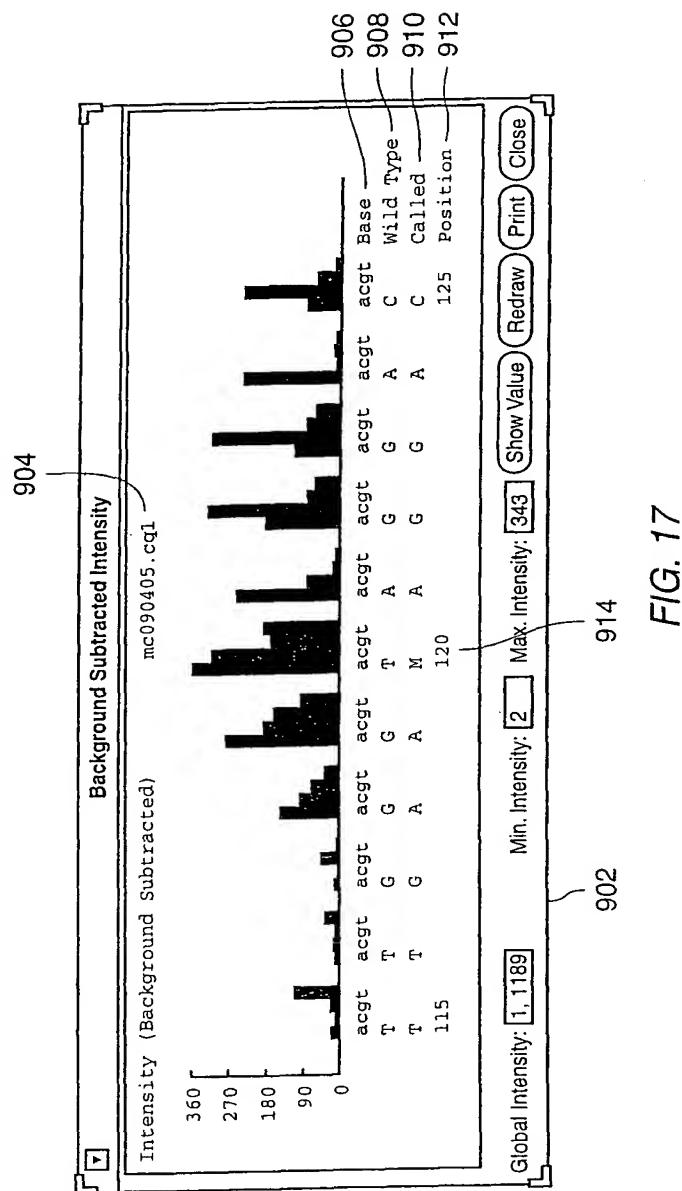


FIG. 17

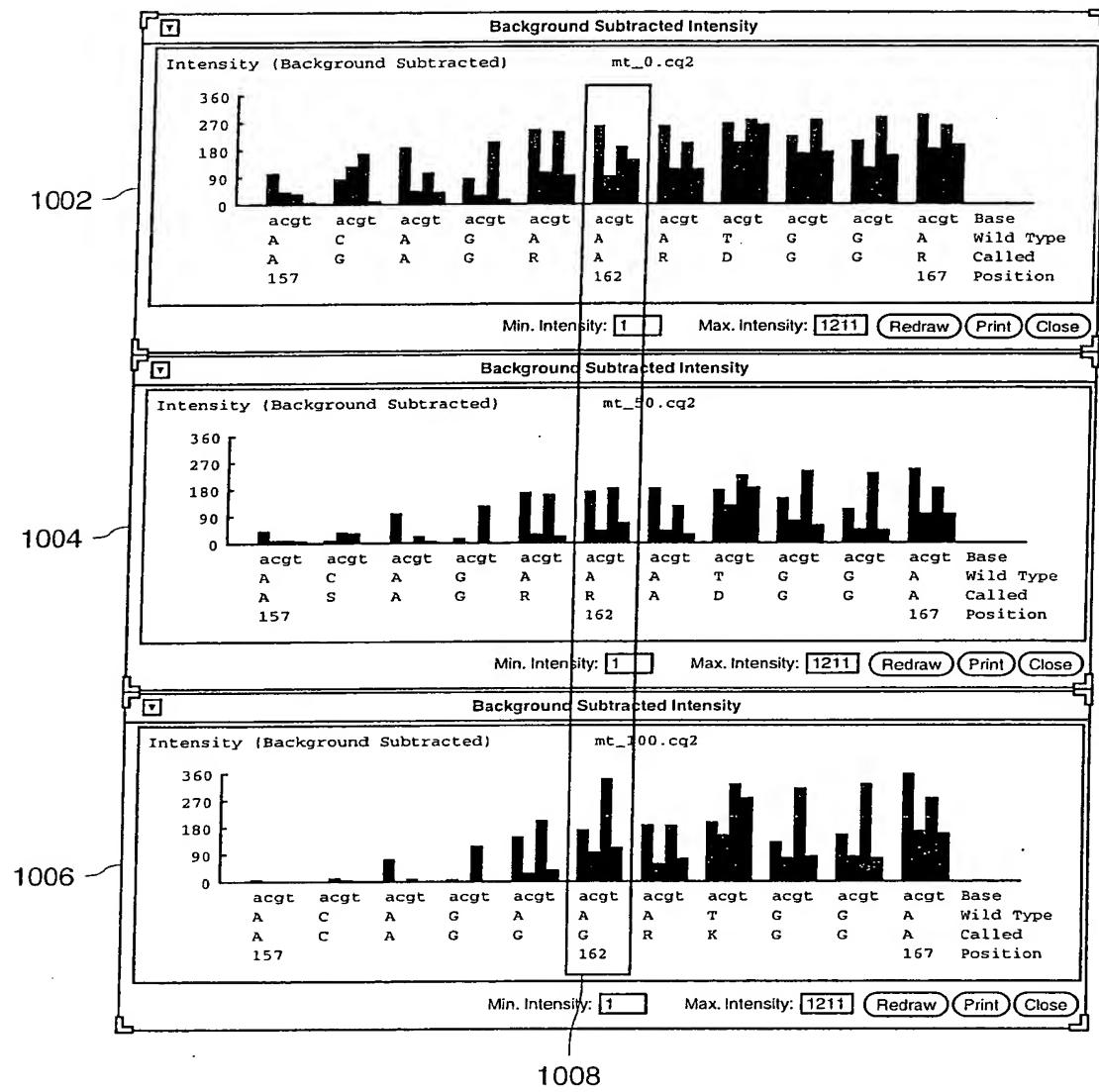


FIG. 18

29/31

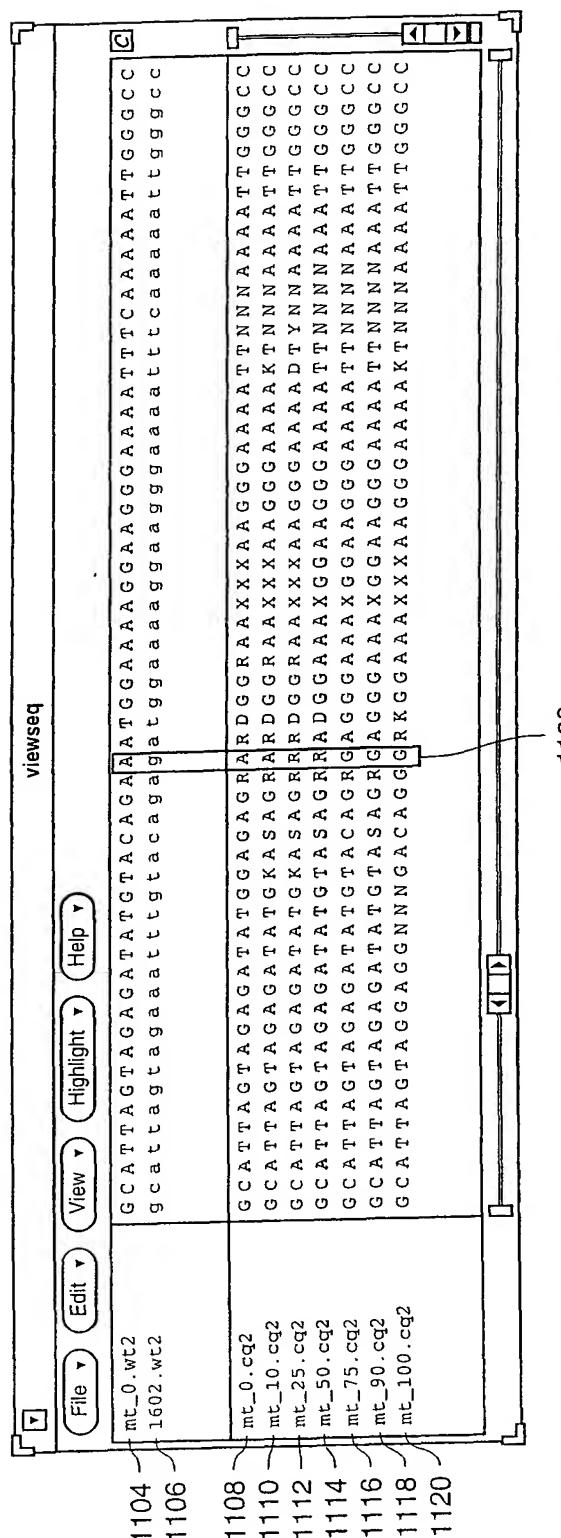


FIG. 19

30/31

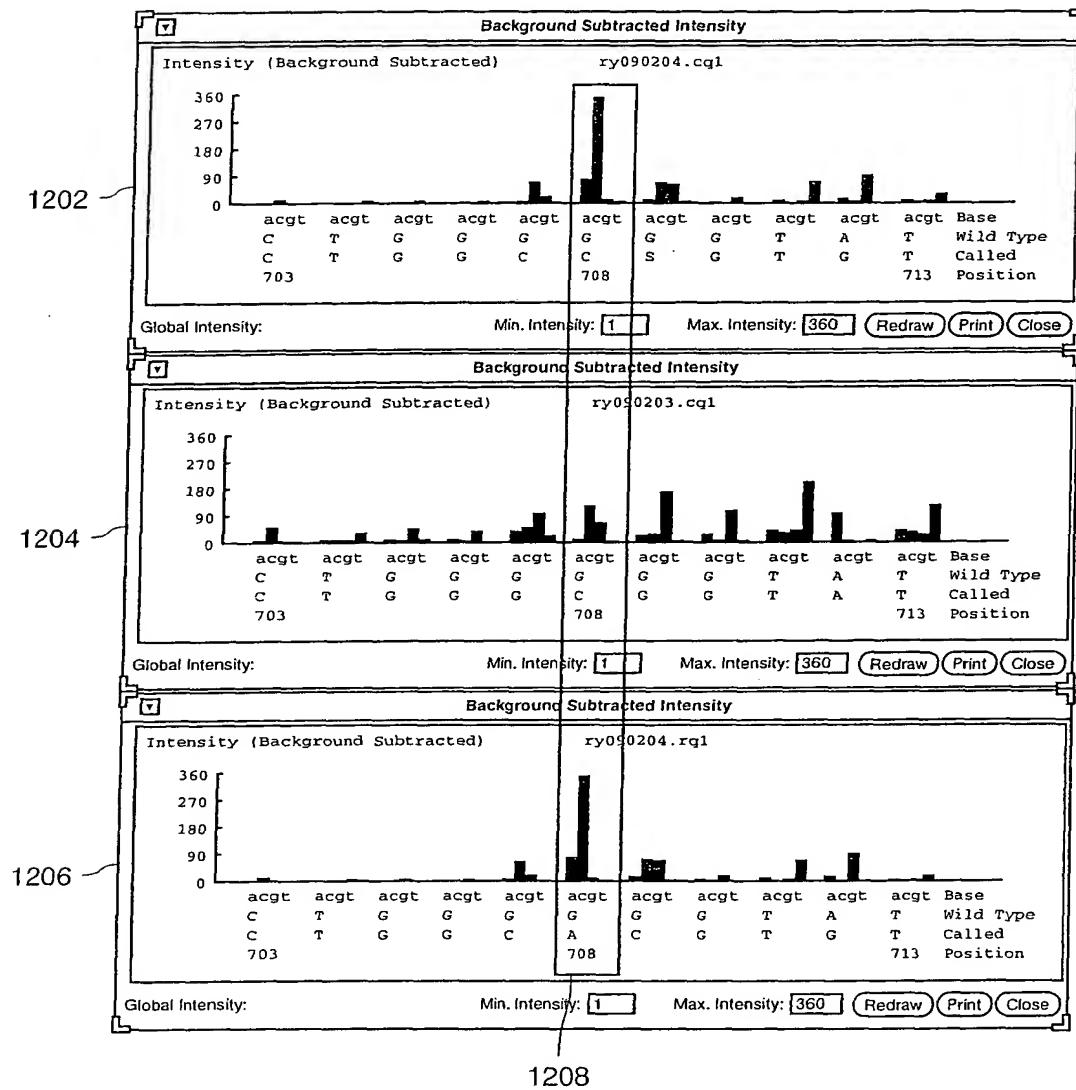


FIG. 21